What is claimed is:

1.   A   system   of   video   stream   encryption,
comprising:

    a   storage   device   capable   of   storing   a   first
          quantization   scale   and   a   second   quantization
          scale,   wherein   the   first   quantization   scale   is
          greater   than   the   second   quantization   scale;   and
    an   encryption   application   coupled   to   the   storage
          device,   configured   to   receive   video   data,   the
          first   quantization   scale   and   the   second
          quantization   scale,   generate   quantized   data   by
          dividing   the   video   into   the   first   quantization
          scale,   generate   supplementary   data   by
          subtracting   the   quantized   data   multiplied   by
          the   first   quantization   scale   from   the   video
          data,   generate   quantized   supplementary   data   by
          dividing   the   supplementary   data   into   the   second
          quantization   scale,   encode   and   encrypt   the
          quantized   supplementary   data   using   variable
          length   encoding   and   symmetrical/asymmetrical
          encryption   algorithm.

2.   The   system   as   claimed   in   claim   1   further
comprising a first compression application configured to
receive and compress video data.

3.   The   system   as   claimed   in   claim   2   wherein   the
video data is compressed using motion prediction.

1   4.   The system as claimed in claim 2 wherein the
2   video data is compressed using discrete cosine
3   transformation (DCT).

1   5.   The system as claimed in claim 1 further
2   comprising a second compression application configured to
3   receive the quantized data and generate encoded quantized
4   data using variable length encoding.

1   6.   A method of video stream encryption, comprising
2   using an electronic device having a CPU to perform the
3   steps of:
4   receiving video data, a first quantization scale and
5   a second quantization scale, wherein the first
6   quantization scale is greater than the second
7   quantization scale;
8   generating quantized data by dividing the video data
9   into the first quantization scale;
10   generating supplementary data by subtracting the
11   quantized data multiplied by the first
12   quantization scale from the video; and
13   generating encrypted quantized supplementary data
14   using variable length encoding and
15   symmetrical/asymmetrical encryption algorithm.

1   7.   The method as claimed in claim 6 further
2   comprising compressing the video data.

1　　　　8.　The method as claimed in claim 7 wherein the
2　　compression method uses motion prediction.

1　　　　9.　The method as claimed in claim 7 wherein the
2　　compression method uses discrete cosine transformation
3　　(DCT).

1　　　　10.　The method as claimed in claim 6, further
2　　comprising generating encoded quantized data from the
3　　quantized data using variable length encoding.

1　　　　11.　A storage medium for storing a computer program
2　　providing a method of video stream encryption, comprising
3　　using a computer to perform the steps of:
4　　　　　receiving video data, a first quantization scale and
5　　　　　　　a second quantization scale, wherein the first
6　　　　　　　quantization scale is greater than the second
7　　　　　　　quantization scale;
8　　　　　generating quantized data by dividing the video into
9　　　　　　　the first quantization scale;
10　　　　　generating a supplementary data by subtracting
11　　　　　　　quantized data multiplied by the first
12　　　　　　　quantization scale from the video; and
13　　　　　generating encrypted quantized supplementary data
14　　　　　　　using variable length encoding and
15　　　　　　　symmetrical/asymmetrical encryption algorithm.

1　　　　12.　The method as claimed in claim 11, further
2　　comprising compressing the video data.

1   13.   The method as claimed in claim 12 wherein the
2   compression method uses motion prediction.

1   14.   The method as claimed in claim 12 wherein the
2   compression method uses discrete cosine transformation
3   (DCT).

1   15.   The method as claimed in claim 11, further
2   comprising generating encoded quantized data from the
3   quantized data using variable length encoding.